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Abstract of the Disclosure

5 A technique to ascertain the presence or absence of  
an object in a three-dimensional volume, such as  
explosives in the side walls of luggage. The technique  
involves radiation scanning the three-dimensional volume  
to determine a property of each of a plurality of voxels  
representing the three-dimensional volume and to identify  
voxels having similar values of the property to identify  
a contiguous group of voxels having the similar values.  
10 Then, the contiguous group of voxels is identified as  
containing the object if a characteristic (such as mass  
and/or volume) of the contiguous group has a  
predetermined value.